

Welcome to Webinar on Accelerated Bridge Construction

NCHRP 12-98, Part 1: Tolerances for Prefabricated Bridge Elements and Systems (PBES)

Sponsored by

*Accelerated Bridge Construction University Transportation Center
(ABC-UTC) at*

Florida International University



Website: abc-utc.fiu.edu

Email: abc@fiu.edu

June 29, 2017 – 1:00 p.m. to 2:00 p.m. Eastern

Today's Webinar

ABC Announcements

(10 minutes)

Featured Presentation

(35 minutes)

NCHRP 12-98, Part 1: Tolerances for Prefabricated Bridge Elements and Systems (PBES)

Michael P. Culmo, P.E., Vice President of Transportation & Structures, CME Associates Inc.; and Principal Investigator for NCHRP 12-98 Research Project

Question and Answer

(15 minutes)

Please post your questions in the question box

2017 Conference Update

SPONSORED BY

Accelerate Bridge Construction - University Transportation Center (ABC-UTC)
Civil and Environmental Engineering Department at Florida International University
www.abc-utc.com

FIU

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Florida International University
1000 West Taylor Street, Miami, FL 33199
Phone: (305) 994-3333 ext. 2100 | Fax: (305) 344-3807

2017

National Accelerated
Bridge Construction
Conference

December 7th -8th, 2017
Workshops December 6th
Hyatt Regency Hotel
Miami, Florida

FIU | Engineering
& Computing
FLORIDA INTERNATIONAL UNIVERSITY



Conference Co-Sponsors

- FHWA
- 30 State DOTs
- TRB

2017 Conference at a Glance

Wednesday, December 6

Eleven (11), four-hour workshops

General Session

Thursday, 8:15–10:15 a.m.

Keynote Speaker – Secretary of Transportation – Elaine Chao (Invited)

Thursday and Friday

120 Technical Presentations

Breakfast at Exhibit Hall

Thursday and Friday, 7:00–8:15 a.m.

Reception in Exhibit Hall

Thursday, 6:00–7:30 p.m.

Spouse Program

Thursday, 8:00 a.m. to 4:00 p.m.

Pre-Conference Workshops

No.	Time	Workshop Title
1	a.m.	Implementation of the new AASHTO Guide Specifications for ABC
2	"	Lightweight Concrete – A Tool for Accelerated Bridge Construction
3	"	Programmatic Approach to Accelerated Bridge Construction
4	"	Ultra-High Performance Concrete Connections for Prefabricated Bridge Elements
5	"	Foundation Re-use for ABC Projects
6	p.m.	Proven Advanced Technologies Initiative
7	"	Self-Propelled Modular Transporters for ABC Trends, Challenges, and Future Activities
8	"	Today's Precast, Prestressed Concrete Bridge Design
9	"	Recent Developments in Steel ABC Applications
10	"	Innovative Bridge Designs for Rapid Renewal, SHRP2 R04 ABC Toolkit
11	"	Accelerated Bridge Construction in Seismic Regions

Note: **a.m.** = 8:00 a.m. to noon; **p.m.** = 1:00-5:00 p.m.

Call for Award Nominations

Award Categories:

- Most Influential Person Contributing to the Cause and Implementation of ABC
- Best ABC Project in the following categories:
 - Lateral Slide Technology
 - Self-Propelled Modular Transporters
 - Prefabricated Bridge Elements and Systems
 - Emergency

Judges:

- Carmen Swanwick, Utah DOT, Chair
- Benjamin Beerman – FWHA
- Bruce Johnson – Oregon DOT
- Ahmad Abu-Hawash – Iowa DOT
- Corey Rogers – Michigan DOT
- William Oliva – Wisconsin DOT


- Obtain nomination form online
- Submit to Atorod Azizinamini at aazizina@fiu.edu

Submission deadline:
September 15, 2017

Award Nominations

Deadline for Submissions

Nominations are due by 11:59 pm (EST, September 15, 2017). All entries should be submitted via e-mail to Atorod Azizinamini (aazizina@fiu.edu)

 **Most Influential Person
Entry Form**

 **Best ABC Project Entry
Form**

ABC is a paradigm shift that occurs during the project planning phase where the need to minimize on-site construction activities are elevated to a higher priority. Intrinsic benefits of ABC include improvements in safety, quality, durability, social costs, and environmental impacts. The conference awards program provides an opportunity to showcase innovative projects and to recognize talented individuals that advance ABC.

<http://abc-utc.fiu.edu>

Award Categories

1. Most Influential Person Contributing to the Cause and Implementation of ABC
2. Best ABC Project in the following categories:
 - Lateral Slide Technology
 - Self-Propelled Modular Transporters
 - Prefabricated Bridge Elements and Systems
 - Emergency

Reserve your Hotel at Conference Rate



Many art shows and other activities take place in Miami in December. We strongly encourage you to reserve your hotel room at special conference rate by visiting www.abc-utc.fiu.edu soon, while rooms are available.

Exhibit at 2017 Conference



Exhibit Booths are available (about 20 booths still available)

Visit www.ABC-UTC.fiu.edu to reserve

Travel Scholarships



State DOT, county engineers, and other bridge owners interested in receiving travel scholarships should send an email to Atorod Azizinamini at aazizina@fiu.edu with the following information:

- 1. Name and affiliation**
- 2. Job title**
- 3. Reason attending the Conference**
- 4. Whether you are planning to use ABC in the near future**

Expenses Covered by Travel Scholarships



- Four nights of stay at conference hotel – Hyatt Regency DT
- Registration to attend workshops – Wed., Dec. 6
- Registration to attend conference – Thurs.- Fri., Dec. 7-8
- Airline ticket
- Transportation from airport to hotel and back
- Per diem based on Florida government rate

Call for Suggested Topics/Speakers

2017 ASBI 29th Annual Convention – NYC, NY

October 24-25, 2017

Sponsored by American Segmental Bridge Institute (ASBI)

<http://www.asbi-assoc.org/>

Call for Suggested Topics / Speakers

- Extended Submission Deadline: June 30, 2017

Obtain nomination form at:

<http://www.asbi-assoc.org/index.cfm/events/29th-annual-convention>

Email completed form to William R. “Randy” Cox, ASBI

Executive Director: wrcox@asbi-assoc.org

Call for Award Nominations

2017 NCSEA Excellence in Structural Engineering Awards

[Eligible projects must be substantially complete between January 1, 2014 and June 30, 2017]

Sponsored by National Council of Structural Engineers Associations (NCSEA)

<http://www.ncsea.com>

Award Categories include:

- New Bridges/Transportation Structures
- Renovation/Retrofit Structures

Submission Deadline: July 18, 2017

<http://www.ncsea.com/awards/excellenceinstructuralengineeringawards/>

2018 TRB Annual Meeting

Call for ABC Papers – due August 1

<http://annualmeeting.mytrb.org/CallForPapers/Details/467>

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

TRB 97th Annual Meeting (January 7-11, 2018)

TRB

TRANSPORTATION RESEARCH BOARD

Log In

Call For Papers Details

Authors interested in submitting papers are advised to check the [Paper Author Resource Page](#) and read [Writing a Paper for TRB](#) and [Submitting a Paper to TRB](#). Authors submitting papers in response to this Call for Papers should submit full papers for peer review to the Transportation Research Board online at www.TRB.org/AnnualMeeting. Paper submission is open from June 1 to August 1. The paper submission website will close when it is no longer August 1 anywhere in the world. When submitting please indicate the Call for Papers title on the papers submission form. Please contact the Call for Papers organizer if you need additional information.

Paper Author Warning – It is critical that you check the [Paper Author Resource Page](#) and read [Writing a Paper for TRB](#) and [Submitting a Paper to TRB](#). Remember after August 1 there are no second chances – be very careful with your paper submission.

To submit a paper, please visit the MyTRB Annual Meeting [Paper Submission](#) page.

Call For Paper Title

Accelerated Bridge Construction: technologies and strategies to reduce overall project delivery and on-site impacts

Call Description

A paper session focused on research and current topics regarding the use of Accelerated Bridge Construction (ABC) technologies and strategies is proposed. These methods are becoming more popular with owner agencies due to the benefits they can provide with the delivery of the bridge program. Adopting ABC methods into a project, or into a program of projects, can help owners who are faced with the need to reduce onsite disturbances in order to address existing traffic conditions and other site-related constraints, such as limited access; right-of-way; utilities; and other environmental and permitting needs.

The use of prefabricated bridge elements and systems (PBES) technologies, when used with other ABC strategies, can result in reductions to onsite impacts and improvements in construction efficiencies, safety and durability. A specific focus on ABC technologies and strategies in the areas of policy adoption and planning, public communication, engineering and materials, and construction and contracting is sought.

Call for Award Nominations

2018 PCI Awards

Sponsored by Precast/Prestressed Concrete Institute

<http://www.pci.org>

- PCI Medal of Honor
- Fellows of PCI
- T. Henry Clark Award
- Mario J. Bertolini Leadership and Innovation Award
- Norman L. Scott Professional Engineer Award

Submission Deadline: August 1, 2017

http://www.pci.org/About_PCI/PCI_Awards_Programs/

For more information, contact:

William Nickas, WNickas@pci.org

Call for Award Nominations

2018 PCI Design Awards

Projects completed within the last three years
(no earlier than January 1, 2014)

Sponsored by Precast/Prestressed Concrete Institute

<http://www.pci.org>

Submission Deadline: September 18, 2017

http://www.pci.org/About_PCI/Awards/PCI_Design_Awards/

For more information, contact:

William Nickas, WNickas@pci.org

Upcoming Events

Every Day Counts Webinar Series:

Ultra-High Performance Concrete for Prefabricated Bridge Elements

Sponsored by Federal Highway Administration (FHWA)

Webinar 5 of 6:

*UHPC for PBE Connections:
Implementation Stories*

July 11, 2017 – 1:00-2:30 pm EST

To register, go to the following link:

http://www.fhwa.dot.gov/innovation/everydaycounts/edc_4/uhpc.cfm/

Upcoming Events

2017 New York City Bridge Conference – NYC, NY

August 21-22, 2017

Sponsored by the Bridge Engineering Association

<http://www.bridgeengineer.org>

Early-bird registration ends: July 21, 2017

For more information, contact: Khaled Mahmoud

kmahmoud@bridgeengineer.org

Upcoming Events

2017 Western Bridge Engineers' Seminar – Portland, OR

September 6-8, 2017

Sponsored by FHWA & the Transportation Departments of Alaska, Arizona, California, Idaho, Nevada, Oregon and Washington

<http://www.westernbridge.net>

Early-bird registration ends: August 18, 2017

For more information, email: wbes@wsu.edu

Upcoming Events

2017 CAMX – The Composites and Advanced Materials Expo – Orlando, FL

September 11-14, 2017

<http://www.thecamx.org>

Sponsored by American Composites Manufacturers Association (ACMA) & Society for the Advancement of Material and Process Engineering (SAMPE)

<http://www.acmanet.org> & <http://www.sampe.org/>

Early-bird registration ends: August 18, 2017

For more information, contact John Busel:

jbusel@acmanet.org

ABC-UTC

Quarterly Research Seminar

Thursday, August 3, 2017 – 1:00-2:00 pm Eastern

Extending Application of Simple for Dead Load and Continuous for Live Load (SDCL) to High Seismic Areas

ABC-UTC / Florida International University

Researcher Team Presenters:

- **Atorod Azizinamini, Ph.D., P.E.**, ABC-UTC Director;
Professor and Chair, Civil and Environmental Engineering
Department, FIU
- **Amir Sadeghnejad**, Ph.D. Candidate, FIU

Mark your calendar!

Next Webinar

Thursday, July 20, 2017 (1:00 – 2:00 p.m. Eastern)

Featured Presentation

NCHRP 12-98, Part 2: Dynamics of Bridge Systems

by

Michael P. Culmo, P.E., Vice President of Transportation & Structures, CME Associates Inc.; and Principal Investigator for NCHRP 12-98 Research Project

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Question and Answer

(15 minutes)

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